



# DEPARTMENT OF DEFENSE

## AFHSC Influenza Surveillance Summary



09 March 2010

### DoD Summary

- Influenza-like illness (ILI) rates have remained stable or decreased for the past few weeks across the military health system (MHS)
- Lab-confirmed influenza continues to decrease across the AFHSC-GEIS Global Network
- Pandemic H1N1 (pH1N1) remains the predominant strain across the network with the exception of Central and East Africa

### Laboratory Surveillance

**United States Air Force School of Aerospace Medicine** (Source: global, lab-based military sentinel surveillance)

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- Continued decreases in lab submissions and lab-confirmed influenza seen across the global sentinel network
- Increasing trend in ILI at MTFs remains well below historic averages for this time of year
- Molecular analysis of pH1N1 viruses continues to show close alignment with the monovalent vaccine strain

**Naval Health Research Center** (Source: lab-based recruits, shipboard and border surveillance)

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- Moderately elevated febrile respiratory illness rates at MCRD-San Diego and Lackland AFB; both due to adenovirus activity
- Overall influenza activity at recruit training centers remains consistently low

### Electronic Surveillance

**AFHSC**– (Source: Defense Medical Surveillance System (DMSS); medical encounter database and reportable events)

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- Both ILI (Figure 1) and pneumonia and influenza (P&I) (Figure 2) have remained relatively stable over the past few weeks
- The percent of ILI clinic visits continues to track at or below levels experienced in the two previous years
- There were no new influenza or pneumonia-associated hospitalization reported this week.

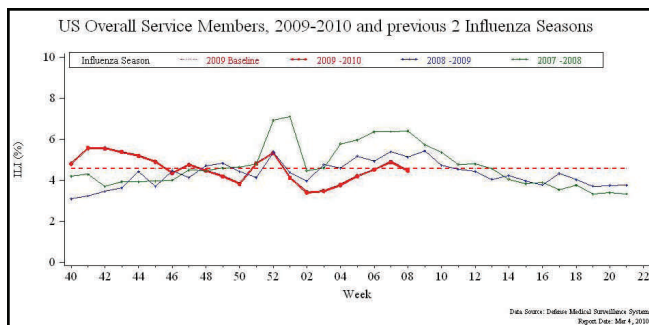


Figure 1: Percent Influenza-like Illness

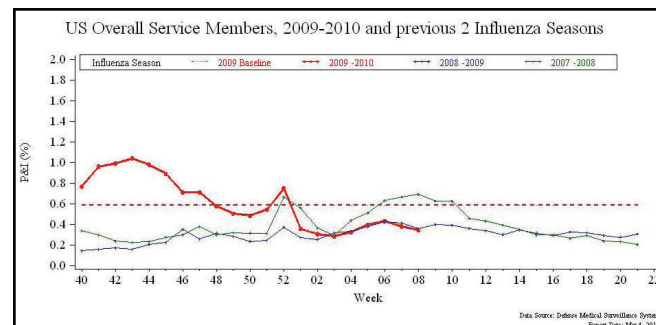


Figure 2: Percent Pneumonia and Influenza

### Global Surveillance Network

**NAMRU-3:** The Egyptian Ministry of Health announced five new cases of human H5N1 this past week  
**USAMRU-K:** Disease activity throughout Central and East Africa continues in a downward trend but has recently shifted to influenza B predominance  
**AFRIMS:** Surveillance throughout SE Asia continues to show a predominance of pH1N1

### Immunization Coverage

(Active Component)	DoD-All*	ARMY	MARINES*	NAVY*	COAST GUARD	AIR FORCE
Seasonal Vaccine	93%	95%	86%	86%	97%	97%
Pandemic Vaccine	84%	88%	77%	76%	92%	90%

\*Underestimates due to time lag in reporting systems

### Influenza-associated Mortality

	Reported Influenza-associated Deaths		
	AD	FM	RET
ARMY	1	1	1
NAVY		3	
MARINES			
AIR FORCE	1	2	2
COAST GUARD			

Last reported influenza-associated death: 12 January 2010

#### AFHSC Suggested Sampling Strategy for Future

##### Surveillance and Monitoring of Influenza Activity at DoD Installations

Samples Collected (Per Week): **6-10** samples from ILI (Fever  $\geq 100.5^{\circ}F$  AND cough or sore throat) patients seen at representative clinics on a given installation **AND ALL** patients hospitalized with respiratory symptoms or clinically diagnosed pneumonia; or part of case clusters (>5 cases) among high risk groups (i.e. basic/advanced military trainees; shipboard or deployed service members; health care professionals)